

CLAIMS:

1. A transvaginal drug delivery system comprising:

(a) a deposition comprising an effective amount of said drug and, optionally, a wetting agent; and

5 (b) a polymeric support on which said deposition is deposited.

2. A delivery system according to claim 1 wherein said drug is selected from the following: nonsteroidal anti-inflammatory drug (NSAID), anti-prostaglandin, prostaglandin inhibitor, COX-2 inhibitor, local anaesthetic, calcium channel blocker, potassium channel blocker, β -adrenergic agonist, leukotriene blocking
10 agent, smooth muscle inhibitor, vasodilator, hormone replacement drug, androgenic hormone and a drug capable of inhibiting dyskinetic muscle contraction.

3. A delivery system according to Claim 2 wherein said NSAID is selected from the following: Aspirin, Ibuprofen, Indomethacin, Phenylbutazone, Bromfenac, Fenamate, Sulindac, Nabumetone, Ketorolac, and Naproxen; said local
15 anesthetic is selected from the following: Lidocaine, Mepivacaine, Etidocaine, Bupivacaine, 2-Chloroprocaine hydrochloride, Procaine, and Tetracaine hydrochloride; said calcium channel antagonist is selected from the following: Diltiazem, Isradipien, Nimodipine, Felodipine, Verapamil, Nifedipine, Nicardipine, and Bepridil; said potassium channel blocker is selected from the following:
20 Defetilide, E-4031, Almokalant, Sematilide, Ambasilide, Azimilide, Tedisamil, RP58866, sotalol, Piroxicam, and Ibutilide; said β -adrenergic agonist is selected from the following: Terbutaline, Salbutamol, Metaproterenol, and Ritodrine; said vasodilator is selected from the following: nitroglycerin, isosorbide dinitrate and isosorbide mononitrate; said hormone replacement drug is selected from the
25 following: estrogen or estradiol and progestogen; said androgenic hormone is selected from the following: testosterone and other androgenic hormones; said COX-2 inhibitor is selected from the following: Celecoxib, Meloxicam and Flosulide; and derivatives of any of the above drugs.

4. A delivery system according to Claim 3 wherein said NSAID is naproxen or ibuprofen.
5. A delivery system according to Claim 1 wherein the components of said deposition are dissolved in a solvent and the deposition is deposited by evaporation of said solvent.
6. A delivery system according to Claim 1 wherein said polymeric support comprises a non-woven polymer.
7. A delivery system according to Claim 1 wherein said polymeric support is in the form of a strip.
- 10 8. A delivery system according to Claim 7 wherein said strip consists of one or more layers.
9. A delivery system according to Claim 8 wherein said strip consists of 2-16 layers.
10. A catamenial tampon for insertion in a human vagina comprising:
 - 15 (a) an inner core comprising an absorbent material;
 - (b) an outer layer comprising a liquid-permeable material; and
 - (c) a delivery system according to Claim 1.
11. A tampon according to Claim 10 wherein said delivery system is positioned between said inner core and said outer layer.
- 20 12. A catamenial tampon according to Claim 11 further comprising a polymeric water-impermeable film between said delivery system and said inner core.
13. A tampon according to Claim 10 wherein said delivery system comprises a plurality of strips of the polymeric support.
- 25 14. A tampon according to Claim 13 comprising 3 strips.
15. A catamenial tampon according to Claim 10 further comprising a polymeric water-impermeable film behind said delivery system.
16. A catamenial tampon according to Claim 15 wherein said polymeric water-impermeable film comprises high-density polyethylene (HDPE).

17. A method of transvaginal drug delivery comprising inserting a catamenial tampon into a vagina, wherein said catamenial tampon comprises:

- (a) an inner core comprising an absorbent material;
- (b) an outer layer comprising a liquid-permeable material; and
- 5 (c) a delivery system according to Claim 1.

18. A method according to Claim 17 wherein said drug is a NSAID.

19. A method according to claim 18 wherein said NSAID is naproxen or ibuprofen.

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